SONY

3-755-228-21 (2)

CD Radio Cassette-Corder

CFD-250/260

Operating Instructions

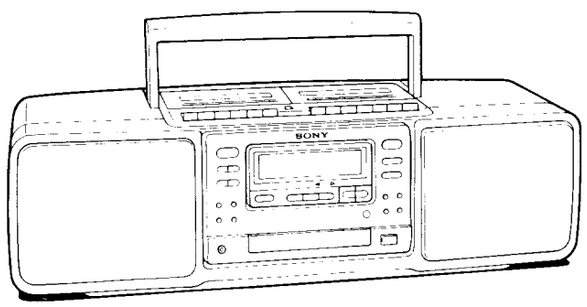
Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model and serial numbers are located at the rear. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

COMPACT disc DIGITAL AUDIO



CFD-260

MEGA BASS

The Sony "MEGA BASS" system for heavy and powerful bass sound.

©1992 by Sony Corporation

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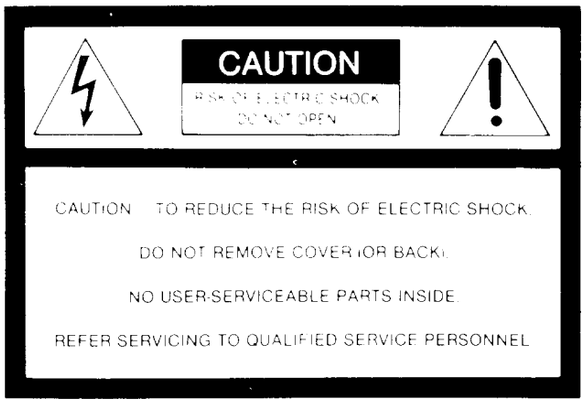
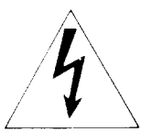
WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
CAUTION TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

The use of optical instruments with this product will increase eye hazard.

For the customers in Canada

CAUTION:
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Information

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment away from the receiver
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No.004-000-00345-4.

Features

High Quality Sound

- A powerful bass sound is produced with the Sony MEGA BASS system.
- The full-range speakers enable you to enjoy the wide range of sound.
- You can enjoy the desired sound by simply pressing the SOUND MODE button.

CD Player

- A high fidelity CD player with 1 bit D/A converter.
- Program play for playing selections in the desired order.
- Shuffle play for playing selections repeatedly in a random order.
- Repeat function for playing either the entire disc or a single selection and also for program play or shuffle play.
- The selections can be programmed automatically to fit into a desired duration (AUTO EDIT).

Tuner

- A total of 24 stations, 12 stations for each FM and AM band, can be preset.
- The unit automatically tunes in the receivable stations (Auto tuning).

Digital Clock Timer

- You can listen to a CD or **RADIO** at a preset time (CFD-250), or to a CD, tape or the radio at a preset time (CFD-260).
- You can record radio programs at a preset time (CFD-260 only).

Others

- The unit is supplied with a remote commander.

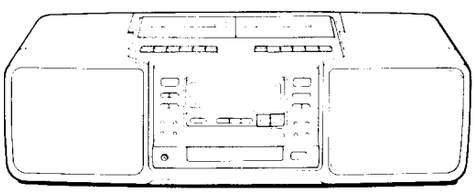
About This Manual

This manual includes information on two CD radio cassette-corders, the CFD-250 and CFD-260. First, refer to the model name indicated on the front and rear panels and check what your model is. Any differences in appearance or operation of the two models are clearly indicated in the text, for example, "CFD-260 only." However, note that the illustrations used in this manual are those of the CFD-260.

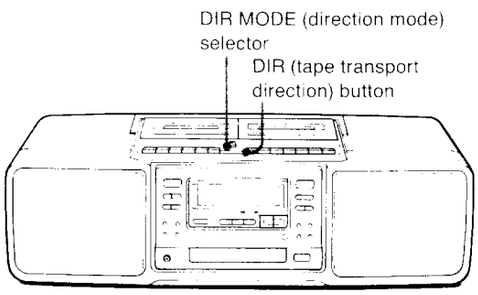
Feature \ Model	CFD-250	CFD-260
tape transport direction	one-way	selectable (deck B only)
auto-reverse		recording and playback (deck B only)

Difference in appearance

CFD-250



CFD-260



Precautions

On power source

- For AC operation (240 V AC for Australian model, 120 V AC for the model of other countries), use the supplied AC power cord; do not use any other type.
  For battery operation, use eight size D (R20) batteries.
- Unplug the unit from a wall outlet when it is not to be used for an extended period of time.
- When the internal batteries are not to be used, remove them to avoid damage caused by battery leakage or corrosion.

On safety

- As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the unit, unplug the unit, and have it checked by qualified personnel before operating it any further.
- The nameplate indicating operating voltage, power consumption, etc. is located at the rear.

On placement

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.
- If the unit is left in a car parked in the sun, be sure to choose a location in the car where the unit will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the unit to prevent possible damage from the magnet.

On operation

- If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the CD player section. Should this occur, the player will not operate properly. In this case, remove the disc and wait about an hour for the moisture to evaporate.
- If the unit has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.

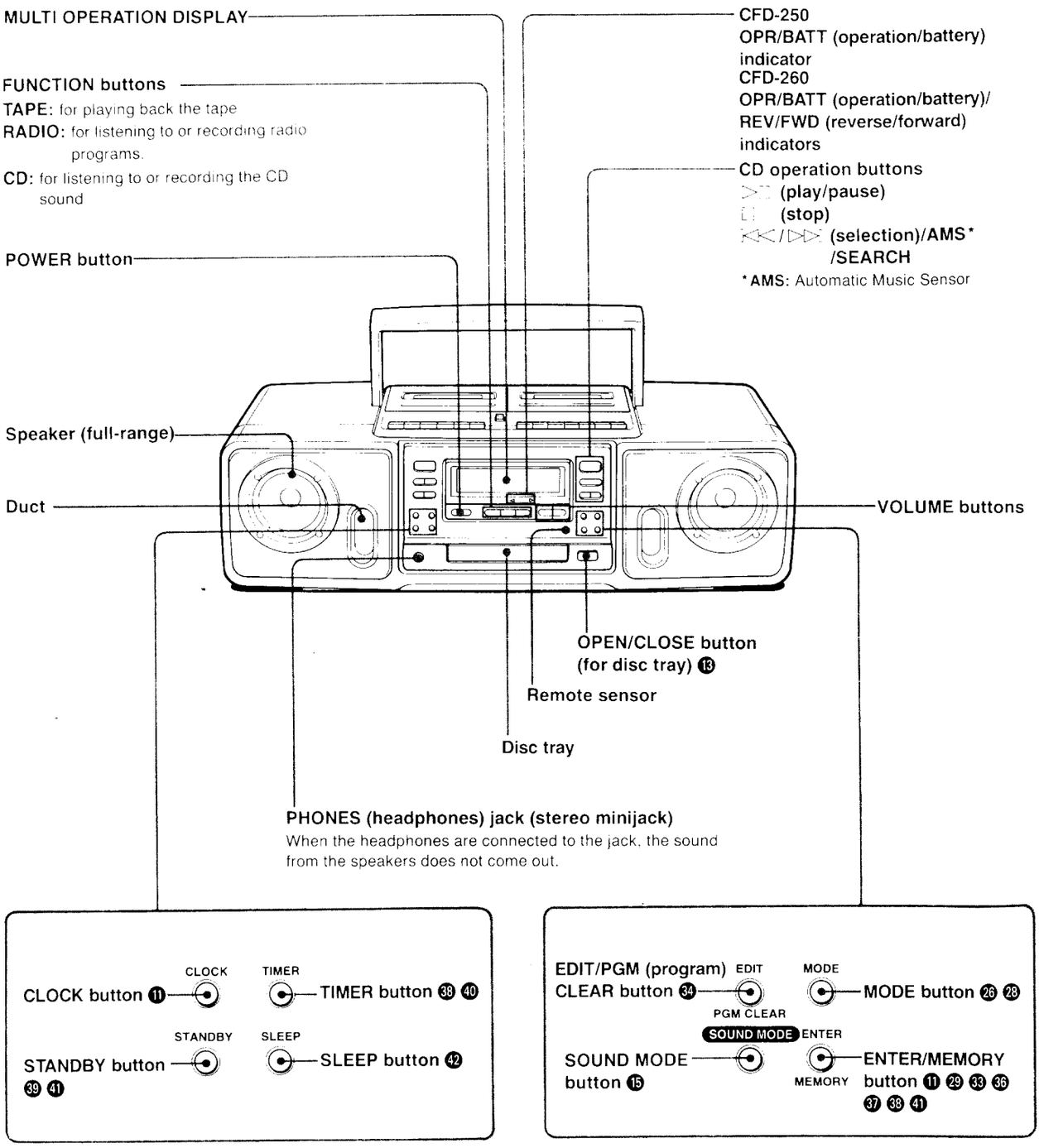
Note on using a cassette with more than 90 minutes of playtime

The use of a cassette with more than 90 minutes of playtime is not recommended except for long, continuous recording or playback.

If you have any question or problem concerning your unit, please consult the nearest Sony dealer.

Parts Identification Refer to the pages indicated in ● for details.

CD Player Section and Clock/Timer Section



Radio/Cassette-Corder Section

Telescopic antenna for FM ⑯
Keep the handle down
when you use the antenna.
The antenna for AM is in the unit.

Cassette holders

Tape operation buttons (Deck A)
■⏏ STOP/EJECT
HI-SPEED DUBBING
▶ PLAY
◀◀ REW (rewind)
▶▶ FF (fast forward)
❚❚ PAUSE

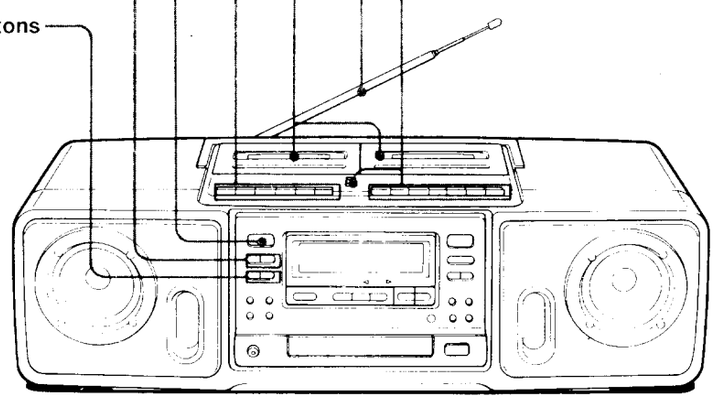
BAND button ⑯ ㉜

PRESET buttons ㉜

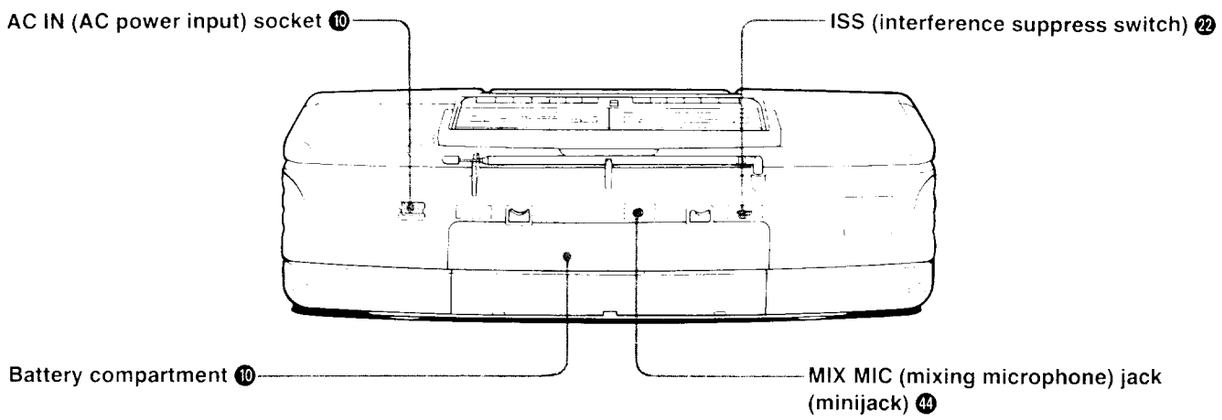
TUNING/TIME SET buttons
⑯ ㉝

Tape operation buttons (Deck B)
CFD-250
■⏏ STOP/EJECT
● REC
▶ PLAY
◀◀ REW (rewind)
▶▶ FF (fast forward)
❚❚ PAUSE

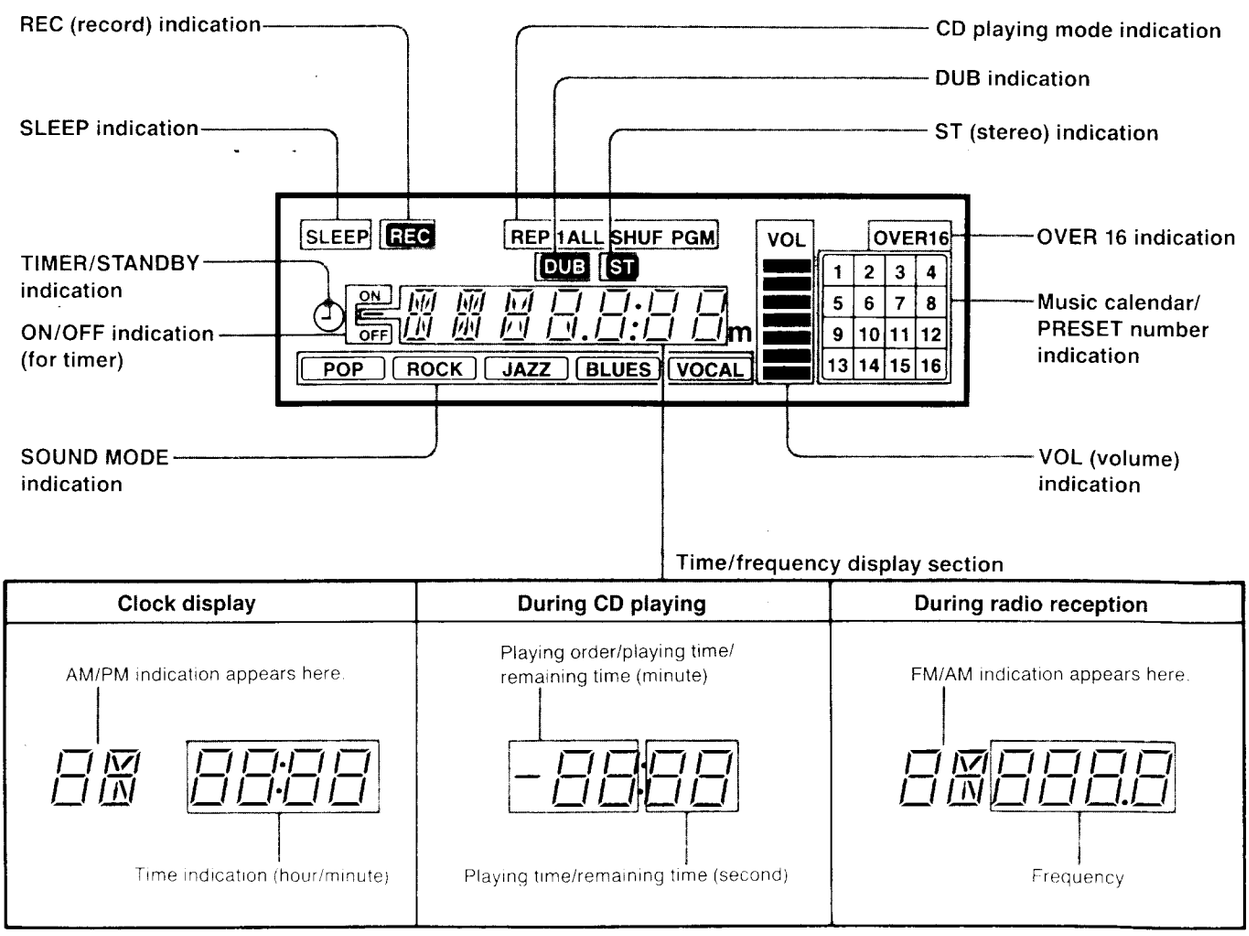
CFD-260
⇄/⇄DIR (direction) MODE selector
◀❚▶ DIR (tape transport direction)
● REC
PLAY
◀◀ (leftward fast winding) } CUE/REVIEW function
▶▶ (rightward fast winding) }
❚❚ PAUSE
■⏏ STOP/EJECT



Rear Panel


AC IN (AC power input) socket ⑩
ISS (interference suppress switch) ㉒
Battery compartment ⑩
MIX MIC (mixing microphone) jack (minijack) ㊹

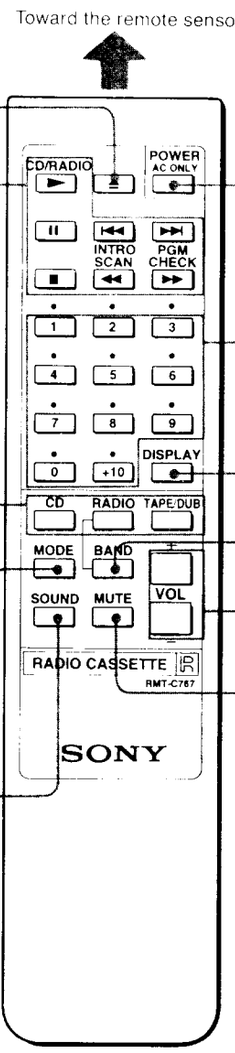
Display Section



Time/frequency display section

Clock display	During CD playing	During radio reception
AM/PM indication appears here. Time indication (hour/minute)	Playing order/playing time/ remaining time (minute) Playing time/remaining time (second)	FM/AM indication appears here. Frequency

Remote Commander



⏏ (open/close) button (for disc tray)

CD operation buttons
- ▶ (play)
- ⏸ (pause)
- ■ (stop)
- ⏮/⏭ (selection search)
- ◀◀/INTRO SCAN (leftward fast winding and INTRO scan play)
- ▶▶/PGM CHECK (rightward fast winding and program check)

FUNCTION buttons
CD: for listening to or recording the CD sound.
RADIO: for listening to or recording radio programs.
TAPE/DUB: for playing back and dubbing a tape.

MODE button

SOUND MODE button

POWER button
When you operate the unit on batteries, you cannot turn on the power with the remote commander.

Number buttons for direct selection (CD/preset station)

DISPLAY button

BAND button

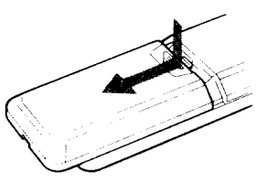
VOLUME buttons

MUTE button
Press to extinguish the sound instantly; press again to resume sound. During mute, the volume indication in the display flashes.

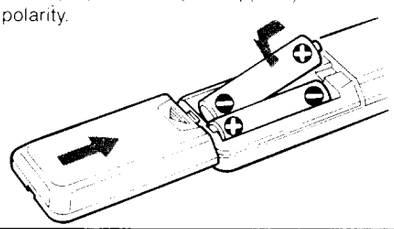
Note on the remote commander
To avoid malfunction, keep the commander away from direct sunlight or strong illumination.

How to install batteries

1



2 Insert two size AA (R6) batteries (not supplied) with correct polarity.



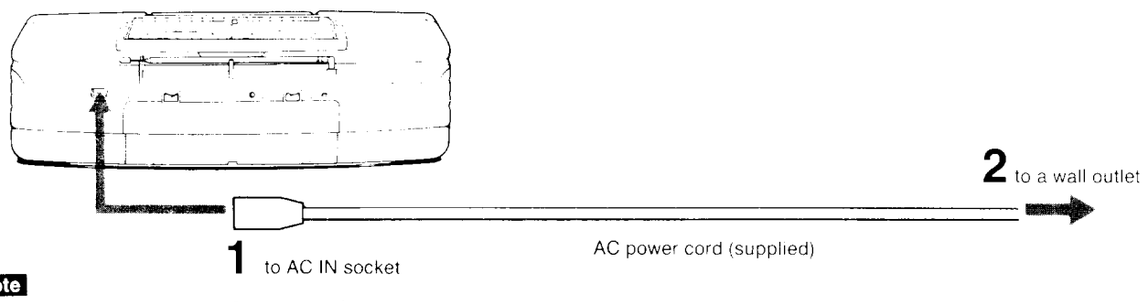
When to replace batteries
Battery life under normal use is about 6 months. When you cannot operate the unit with the remote commander from the distance where you used to operate, replace both batteries with new ones.

Power Sources

Preparation: Insert batteries for clock/timer/memory.
You can use the unit either on house current, or on batteries. In either case, be sure to insert four size AA (R6) batteries (not supplied) for the clock/timer/memory.

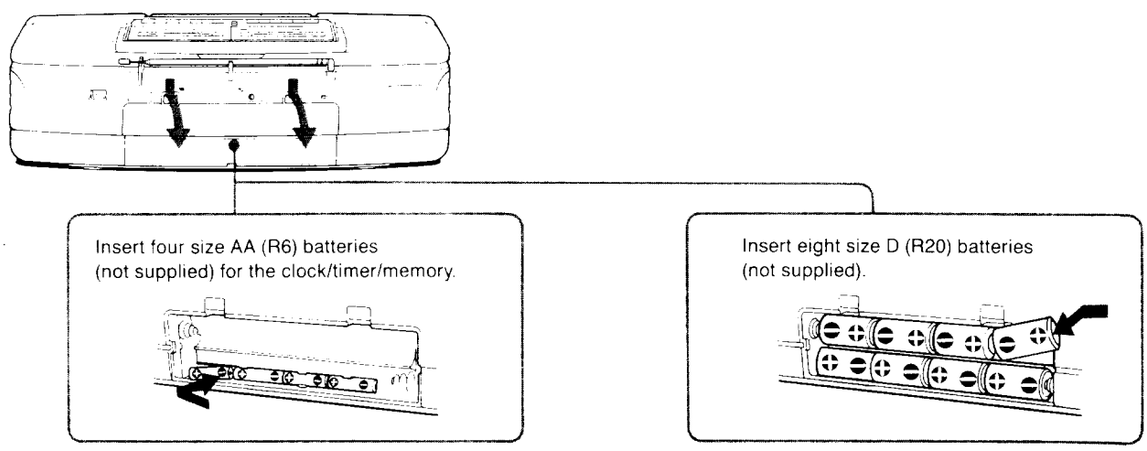
Notes
- When you insert or replace batteries, remove the disc from the unit. The disc may fall out and be damaged.
- When you operate the unit on battereis, be sure to disconnect the AC power cord from the unit. The unit cannot be operated on the internal batteries when the AC power cord is connected to the unit.

House Current



Note
Be sure to use the supplied AC power cord.

Batteries

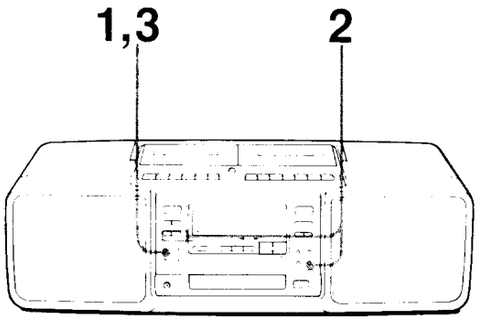


When to replace batteries
When the batteries become weak, the following symptoms appear. Replace all the batteries with new ones. Be sure to connect the AC power cord to the unit and to a wall outlet and turn the power on before you remove the batteries so that the memory for the CD player and radio will not be erased.
- Batteries for the CD/tape/radio operation: The OPR/BATT indicator becomes faint or the power may turn off automatically.
- Batteries for the clock/timer/memory operation: the indications in the display window become faint or the unit may not operate.

For critical recordings or disc playing
Operating the unit on house current is recommended.

Setting the Clock

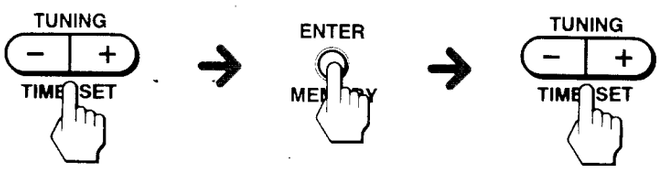
Insert four size AA (R6) batteries for the clock/timer/memory in the battery compartment, and connect the supplied AC power cord to the unit or insert eight size D (R20) batteries.

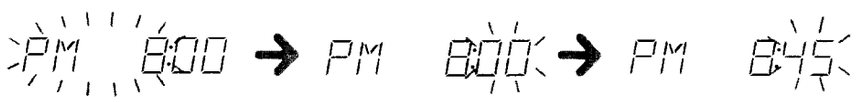


1 Keep pressing CLOCK for about 4 seconds until "AM" or "PM" and the hour digits flash.

2 Set the hour and minute by pressing TUNING/TIME SET and ENTER/MEMORY.

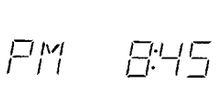
Example: To set to 8:45 p.m.





3 Press CLOCK again.

The clock starts from 00 second.

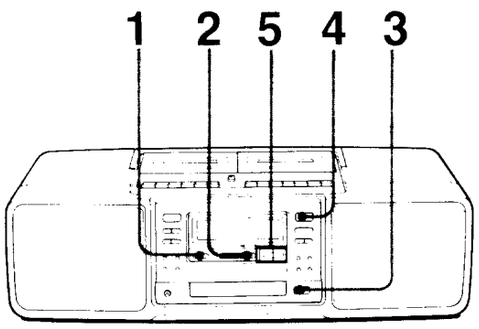


The clock employs the 12-hour system
AM 12:00 = midnight
PM 12:00 = noon

To check the time during CD or radio operation
Press the CLOCK button. The current time is displayed for about 4 seconds.

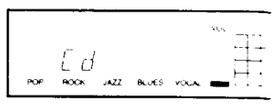
Playing Discs

You can operate the unit with the supplied remote commander.
You can play an 8 cm (3-inch) CD without an adaptor.

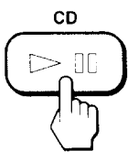


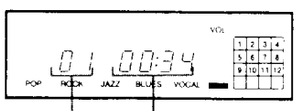
1 Press POWER.

2 Press CD.



4 **Press ▷II.**
Playing starts from the beginning of the disc.





Selection number being played

Elapsed playing time

To Display the Remaining Time

You can do this with the supplied remote commander only.
Press the DISPLAY button once, and the remaining time of the selection is displayed.

Selection number being played

Remaining time of the selection

Press the DISPLAY button once more, and the remaining time of the disc and the remaining selection numbers are displayed.

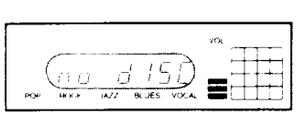
Remaining number of selections

Total remaining time of disc

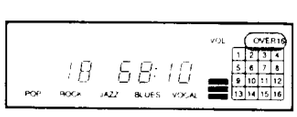
For normal display, press the DISPLAY button.

Notes on information display

- To display the total number of the selections and the total playing time, press DISPLAY in the stop mode.
- If there is no disc in the disc tray, the following indication will appear in the display window several seconds after you press the CD button.

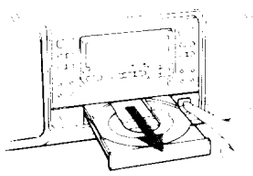


- Up to 16 selections can be displayed in the music calendar.
- If the disc has more than 17 selections, "OVER 16" appears in the display window.

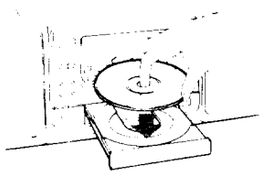


- The remaining time of the selection from the 17th selection appears as "- - : - -".

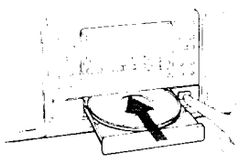
3 1 Press OPEN/CLOSE.



2 Insert a disc with label surface up.



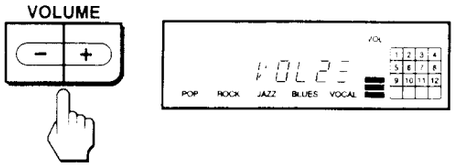
3 Press OPEN/CLOSE.



Note

Be careful so that your finger will not get caught when you close the disc tray.

5 Adjust the volume.



To stop playing the CD

	The button to be pressed	
	Unit	Remote commander
Pause for a moment	▷II	II
Resume play after pause	▷II	II
Stop play		■
Remove the disc	First ■, then OPEN/CLOSE	First ■, then ⏏

To turn off the power

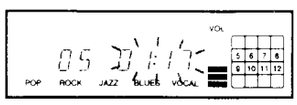
Press the POWER button.

Information Display

The numbers, which appear during pause or between selections, indicate the following:

While in pause

The elapsed playing time flashes.



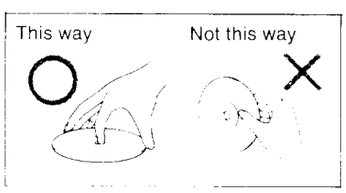
Between selections

The remaining time before the next selection is displayed.

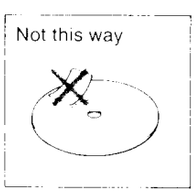
Note

Since the CD system offers a wide dynamic range, high level peak inputs are recorded with high fidelity, and the noise level is very low. Do not turn up the volume while listening to a portion with very low inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

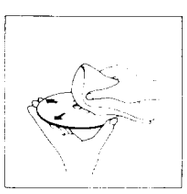
Notes on Compact Discs



Handle the disc by its edge, and to keep the disc clean, do not touch the surface.



Do not stick paper or tape or write anything on the surface.



Before playing, clean the disc with a CD cleaner (not supplied). Wipe the disc from the center out. For maintenance of discs in detail, see page 46.

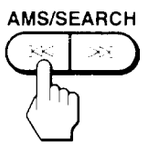
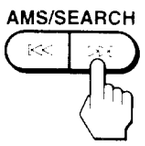
To Listen to the Desired Selections

To locate the beginning of a selection (AMS*)

Be sure any of the following indications is not displayed in the display window: REP 1, REP ALL, REP SHUF, SHUF, PGM, REP PGM. If one of these indications is displayed, press the ■ (stop) button to clear the indication.

Unit

Press the ⏮ or ⏭ button during play or in pause.

To locate the beginning of the selection being played	To locate the beginning of the next selection
	
Press once.	Press once.

*AMS: Automatic Music Sensor

Remote commander

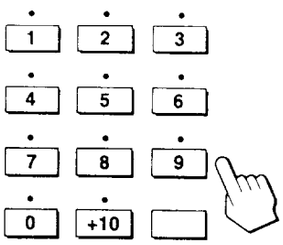
Press the ⏮ or ⏭ button during play or in pause.

To locate the beginning of the selection being played	To locate the beginning of the next selection
Press once.	Press once.

- **During play**
  When you press the ⏮ button once during play, the beginning of the current selection is located. When you press the ⏭ button once during play, the beginning of the next selection is located.
- **In pause**
  When you press the ⏮ button once in pause, the beginning of the selection in pause is located and the disc pauses. When you press the ⏭ button once in pause, the beginning of the next selection is located and the disc pauses.
- When you keep pressing the ⏮ or the ⏭ button for more than one second during play or pause, you can review or advance disc playing rapidly.

To select the desired selection directly

Press the number of the desired selection on the remote commander, and the play starts immediately.



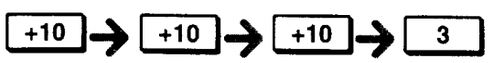
When a selection number is higher than 10, press the +10 button first, then the number buttons "1" to "0".

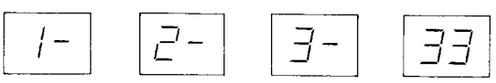
Example:
To play from the 10th selection

Press

Display

To play from the 33rd selection

Press 

Display 

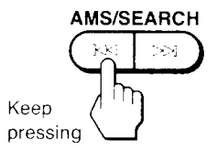
To Search for a Particular Point in a Selection (Search)

To review or to advance rapidly

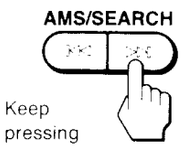
Keep pressing the AMS/SEARCH (⏮/⏭) button on the unit or the ◀◀/▶▶ button on the remote commander to review or to advance disc playing rapidly.

Unit

To review disc playing rapidly



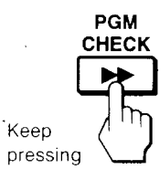
To advance disc playing rapidly



Remote commander

To review disc playing rapidly

To advance disc playing rapidly



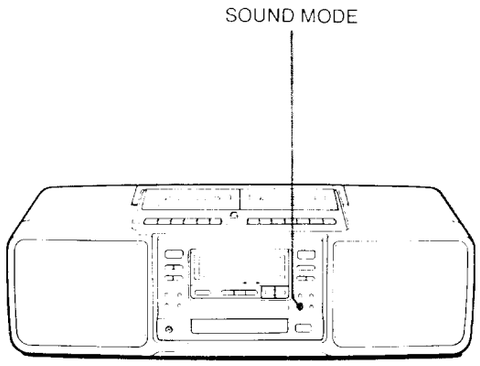
Release the AMS/SEARCH (⏮/⏭) button on the unit or the ◀◀/▶▶ button on the remote commander at the desired point, located by monitoring the high-speed sound.

In the pause mode, you can search rapidly by pressing the AMS/SEARCH (⏮/⏭) button on the unit or the ◀◀/▶▶ button on the remote commander. However, since you cannot hear the sound, observe the time counter instead to locate the desired point.

Five kinds of sound styles are stored in the unit. Press the SOUND MODE button, and you can enjoy the desired sound. Each time you press the button, the indication in the display window changes as follows: POP → ROCK → JAZZ → BLUES → VOCAL → normal mode (no indication) → POP → ···

Select your desired sound, observing the display window.

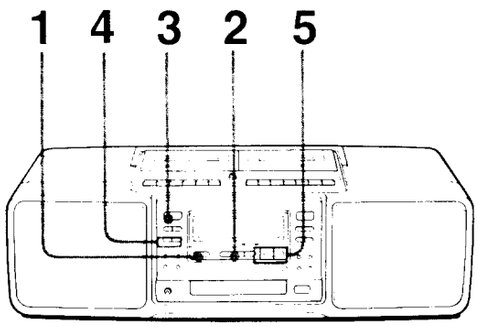
You can do this with the supplied remote commander.



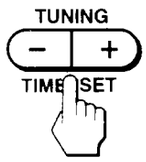
POP	Gives light, bright sound, emphasizing high and middle range sounds.
ROCK	Gives powerful and clear sound, emphasizing low and high sound.
JAZZ	Gives heavy sound, emphasizing bass sound.
BLUES	Gives powerful and rich sound, emphasizing middle range sound and the bass sound a little higher than "JAZZ".
VOCAL	Provides more presence of vocals, emphasizing middle range sound.
normal	It is recommended to set to the normal mode to listen to selections with a dynamic range, such as classical music.

Listening to the Radio (You can do this with the supplied remote commander.)

1 Press POWER.



4 Tune in the desired station.



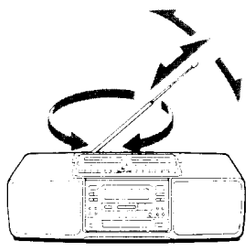
When the unit receives FM stereo programs

The ST (stereo) indication lights. When there is much noise while receiving FM stereo programs, display the "Mono" indication by pressing the MODE button. Though this eliminates the stereo effect, the noise will be reduced.

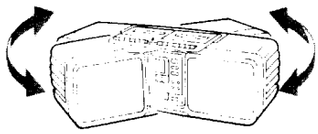
When you press the button once, the sound you are listening to (stereo or monaural) is displayed. To change the sound, press the button again while the "STEREO" or "Mono" (monaural) indication is displayed.

To improve the receiving condition

FM



AM



Notes

- When you listen to an AM program near a TV, noise may be heard in the AM program. When you listen to an FM program near a TV with an indoor antenna, the picture of the TV may become unstable. In such cases, move the unit away from the TV.
- When you operate the supplied remote commander while listening to an AM program, noise may be heard.
- If a very weak station or a frequency without a station is tuned in during FM reception, the ST (stereo) indication may appear. This is not a malfunction. To listen to the sound, press the MODE button and display the "Mono" (monaural) indication.
- The sound may be interrupted momentarily when you switch the stereo/monaural mode during FM reception; however, this is not a malfunction.

2 Press RADIO.

FUNCTION

3 Select the desired band, FM or AM by pressing the BAND.

RADIO

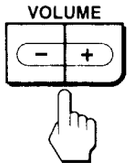
With each press of the button, the band changes.

Desired band	Band indication
FM	"FM"
AM	"AM"

Auto tuning
Keep pressing the TUNING/TIME SET button and release it when the digits in the display window begin to change. The digits automatically stop when the unit tunes in a station in good receiving condition.

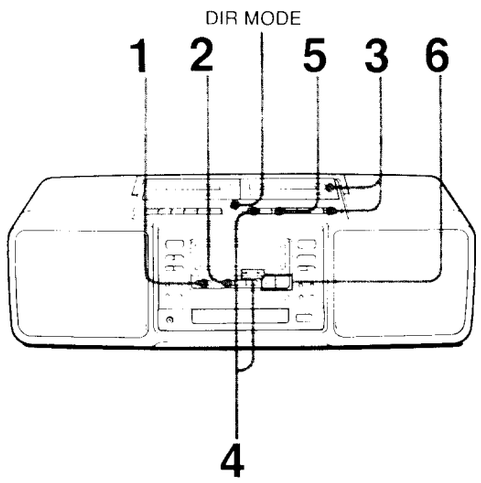
5 Adjust the volume.

VOLUME



To turn off the radio
Press POWER again.

Playing Back Tapes (Either deck can be used. The procedure below shows deck B.)



1 Press POWER.

2 Press TAPE.

4 **Check the tape transport direction with ◀REV/FWD▶ (reverse/forward) indicators CFD-260, deck B only).**
If required, switch the tape transport direction by pressing the ◀I▶ button.

The REV or FWD indicator lights, depending on the direction of the tape.

To wind a cassette rapidly in the forward or reverse direction, press the following buttons:

	Wind rapidly in forward direction	Wind rapidly in reverse direction
Upper side	▶▶	◀◀
Reverse side (CFD-260 only)	◀◀	▶▶

During the rapid playback or rewinding, the REV or FWD lamp lights.

To select direction mode (CFD-260 deck B only)
Set the DIR MODE selector to the desired position.

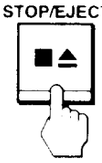
	Direction mode
To play back one side of a cassette	⇀
To play back both sides of a cassette from the upper side to the reverse side of a cassette*	⇄

*If playback begins from the reverse side, the tape stops at the end of that side.

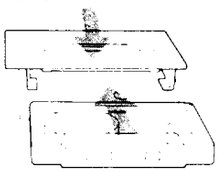
To listen to the opposite side during playback (CFD-260 deck B only)
Press the ◀I▶ button.

3 Insert a recorded tape.

STOP/EJECT

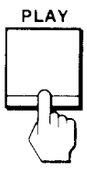


Close the holder.



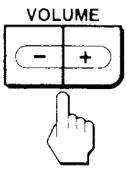
Press **PLAY.**

PLAY



6 Adjust the volume.

VOLUME



To stop playback
Press the ■⏏ button.

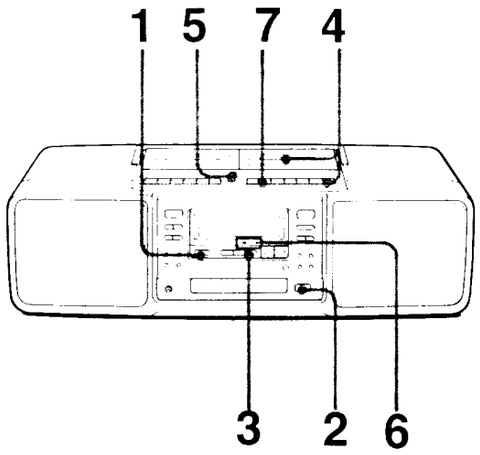
To pause for a moment
Press the ❚❚ button.
(To resume play after pause, press the ❚❚ button.)

To remove a cassette
Press the ■⏏ button.

To turn off the power
Press the POWER button.

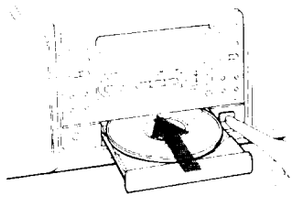
To locate the desired position (CFD-260 deck B only)
Keep pressing the ◀◀ or ▶▶ button (CUE/REVIEW function) during play. At the desired point found by listening to the high speed sound, release the ◀◀ or ▶▶ button to resume play.

Recording CD Sound (with deck B)

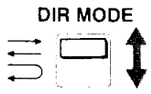


1 Press POWER.

2 Insert a disc in the disc tray (see page 13).



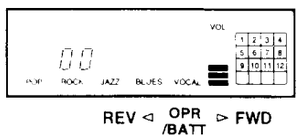
5 Select the direction mode with DIR MODE (CFD-260 only).



	Direction mode
To record on one side of a cassette	⇄
To record on both sides of a cassette*	⮌

*Both-side-recording should be started from the forward side.

6 **Check the tape transport direction (CFD-260 only).** If required, switch directions by pressing the ◀/▶ button.



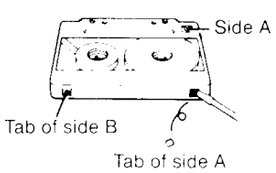
Checking the remaining time of the disc

Press the DISPLAY button on the remote commander.

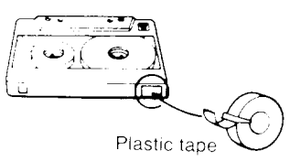
Press DISPLAY...	You see...
once	the remaining time of the selection being played.
twice	the remaining time of the disc and the number of remaining selections

To prevent accidental erasure

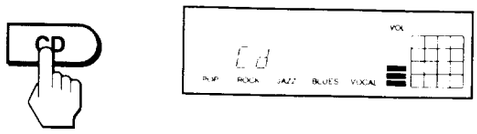
Break off the cassette tab of side A or B as illustrated.



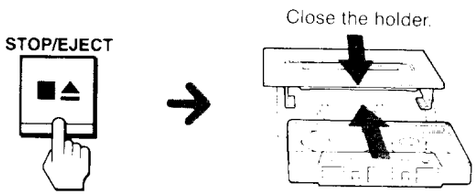
To reuse a cassette for recording, cover the broken tab slot.



3 Press CD.

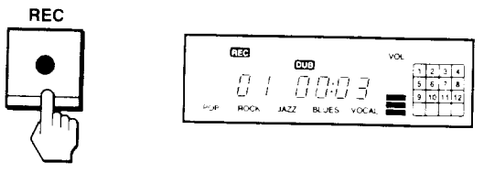


4 Insert a cassette in deck B with the side to be recorded up.



Use a TYPE I (normal) tape only.

7 **Press ● REC on deck B.**
► PLAY is depressed automatically.
The REC and DUB indications appear and recording starts from the beginning of the disc (CD synchronized starting system).



To stop recording
Press the ■ (stop) button on the CD player section and the ■⏏ button on deck B.

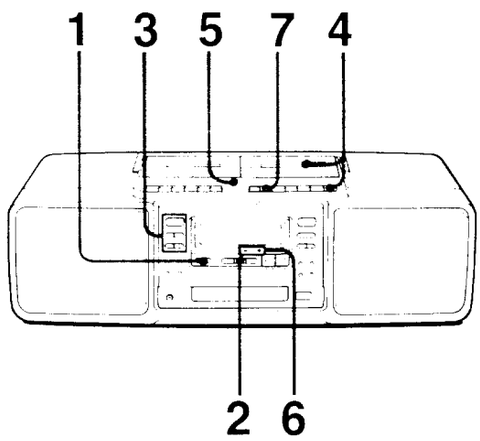
To turn off the unit
Press the POWER button.

The recording level is adjusted automatically.
The setting of the VOLUME buttons or the SOUND MODE button does not affect the recording level. During recording you can listen to the sound, adjust the volume of the speakers or headphones, or change the sound mode.

To erase the recorded sounds
1 Press the TAPE button to display the "TAPE" indication.
2 Disconnect the microphone if connected to the MIX MIC jack.
3 Press the ● button.

Note on recording
During recording, only the ■ (stop) and the OPEN/CLOSE button for CD and the ■⏏ button for tape on the unit can be operated, and only the ■ (stop) and the ⏏ buttons on the remote commander can be operated.

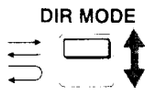
Recording Radio Sound (with deck B)



1 Press POWER.

2 Press RADIO.

5 **Select the direction mode with DIR MODE (CFD-260 only).**



	Direction mode
To record on one side of a cassette	
To record on both sides of a cassette*	

*Both-side-recording should be started from the forward side.

To reduce noise while recording AM

If a whistling noise is heard, set the ISS switch* (on the rear of the unit) to the position where the noise is reduced best. Normally set it to "2".

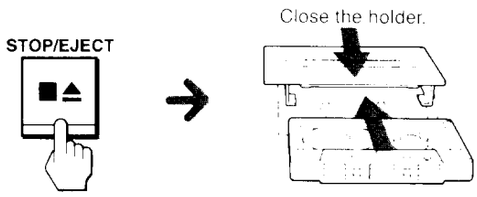
*ISS: Interference Suppress Switch

Notes

- If you use the supplied remote commander near the unit while listening to an AM program, noise might be heard.
- When you record radio sound, operating the unit on house current with the supplied power cord is recommended.

3 Tune in the desired station (see page 16).

4 Insert a blank cassette in deck B.

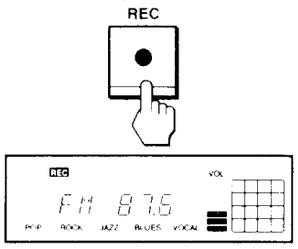


Use a TYPE I (normal) tape only.

6 **Check the tape transport direction (CFD-260 only)**
If required, switch directions by pressing the ◀I▶ button.

REV ◁ OPR /BATT ▷ FWD

7 **Press ● REC on deck B.**
▶ PLAY is depressed automatically. The **REC** indication appears and recording starts.

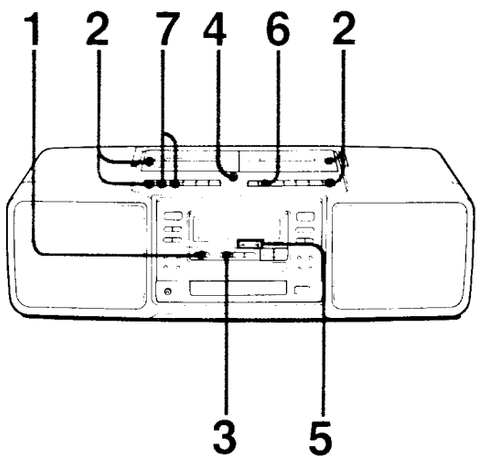


To stop recording
Press the ■⏏ button.

To turn off the unit
Press the POWER button.

The recording level is adjusted automatically.
The sound to be recorded is not affected by the setting of the VOLUME buttons or the SOUND MODE button.

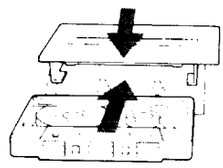
Tape Dubbing (from deck A to deck B)



1 Press POWER.

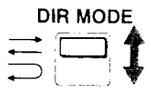
2 Insert a recorded cassette in deck A.

Close the holder.



The upper side is to be played back.

4 **Select the direction mode with the DIR MODE (CFD-260 only).**

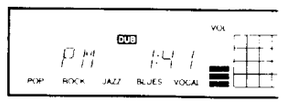


	Direction mode
To record on one side of a cassette	⇄
To record on both sides of a cassette*	⇄

*Both-side-recording should be started from the forward side.

5 **Check the tape transport direction (CFD-260 only).**

If required, switch direction pressing the ◀‖▶ button.

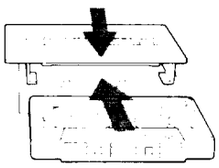


Notes

- If deck A's tape finishes first, the ▶ button will automatically be released and deck B will also stop. The ● and the ▶ buttons are still depressed. To release them, press the ■ ⏏ button.
- If deck B's tape finishes first, the ● and ▶ button of deck B will automatically be released. Deck A will continue to play.

Insert a blank cassette in deck B.

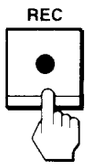
Close the holder.



The upper side is to be recorded.
Use a TYPE I (normal) tape.

3 Press TAPE twice to display the **DUB** indication.

6 Press ● REC on deck B.

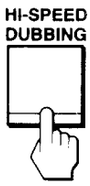


The ▶ button is depressed automatically. The **REC** indication appears and the unit will standby.

7 **Press ▶ PLAY or HI-SPEED DUBBING on deck A.**

For normal dubbing

For high-speed dubbing



To stop dubbing
Press the ■⏏ button on deck A then deck B.

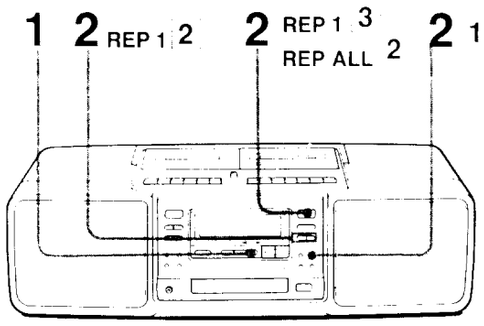
To turn off the unit
Press the POWER button.

The recording level is adjusted automatically
The sound to be recorded is not affected by the setting of the VOLUME buttons or the SOUND MODE button.

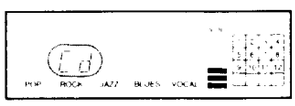
Various Disc Playing Modes

Each time you press the MODE button, the playing mode changes in sequence as indicated in the display window: REP (repeat) 1 → REP (repeat) ALL → REP SHUF (repeat shuffle play) → SHUF (shuffle play) → PGM (program play) → REP PGM (repeat program play) → normal play. Select the desired mode by observing the display window.

To Repeat Selections — Repeat Play



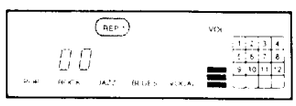
1 Press CD to display the "Cd" indication.



2 Repeat 1

1 Press MODE to display the REP 1 indication.

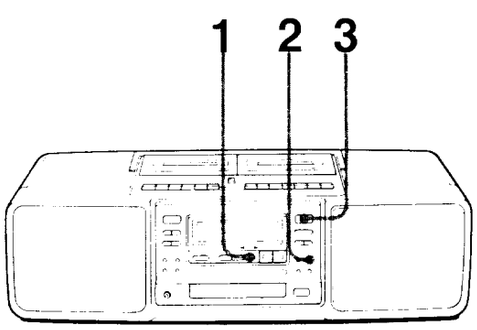
MODE



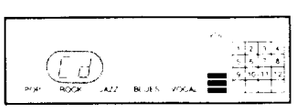
Note

Make sure neither the PGM nor SHUF indication is displayed before proceeding with these steps. If either is displayed, press the ■ (stop) button.

To Play Selections in a Random Order — Shuffle Play



1 Press CD to display the "Cd" indication.



2 Press MODE until the SHUF indication appears.

MODE

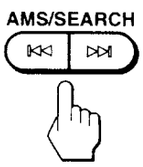
Note

You cannot display the remaining time of the disc during shuffle play.

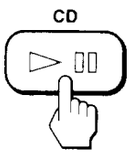
What does [ ] mean?

This indication means the unit is shuffling the selections.

2 Choose the desired selection with the ⏮ or ⏭ button (or the number buttons on the remote commander).

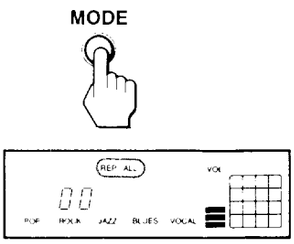


3 Press ▷II.

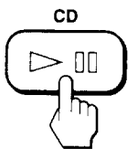


Repeat All

1 Press MODE to display the REP ALL indication.



2 Press ▷II.

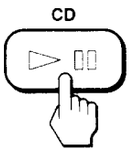


To stop repeat play
Press the □ (stop) button.

To release repeat play and to return to normal play
Press the MODE button until no indication appears or press the □ button while the CD player is in stop mode.

Note
During repeat play, the remaining time of the disc cannot be displayed.

3 Press ▷II.



When a selection finishes playing, its number disappears from the music calendar.

To stop shuffle play
Press the □ (stop) button.
When all the shuffle play is finished, the player stops.

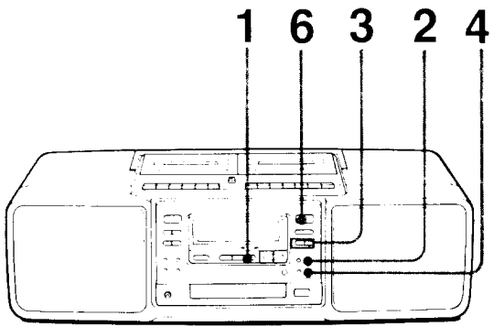
To release shuffle play and to return to normal play
Press the MODE button until no indication appears or press the □ button while the CD player is in stop mode.

When you press the MODE button during normal play
Shuffle play begins from the selection being played.

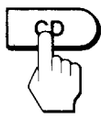
To repeat selections in a random order — Shuffle repeat
1 Press the CD button to display the "Cd" indication.
2 Press the MODE button until the REP SHUF indication appears.
3 Press the ▷II button.

To Play Selections in the Desired Order — Program Play

Unit

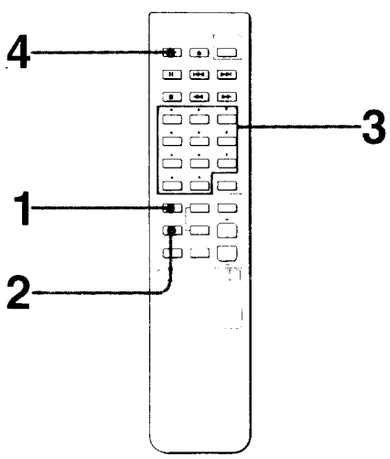


1 Press CD to display the "Cd" indication.



2 Press MODE until the PGM indication appears.

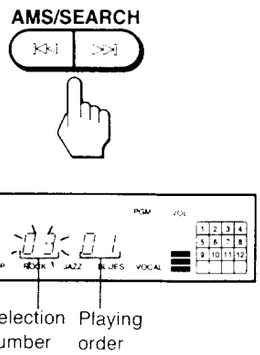
Remote commander



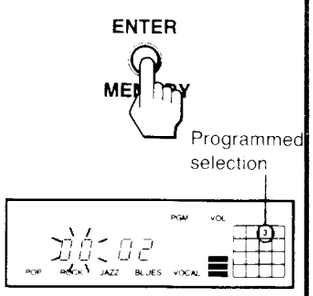
1 Press CD to display the "Cd" indication.

2 Press MODE until the PGM indication appears.

3 Select the desired selection by pressing AMS/SEARCH ⏮/⏭.



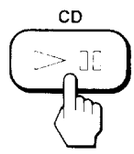
4 Press ENTER/ MEMORY.



The selection has been programmed.

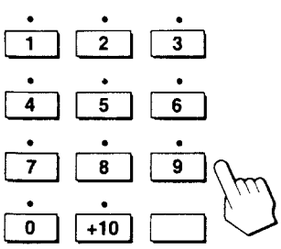
5 Repeat steps 3 and 4.
Select selections in the order you want to play them.
Up to 17 selections can be programmed.

6 Press ▷❚❚.



The selection programmed first begins to play.
The numbers of the finished selections disappear from the music calendar.

3 **Press the number buttons in the desired order.**
The selections are programmed in the order the numers are pressed.



Up to 17 selections can be programmed.

4 Press ▶.

The selection programmed first begins to play.
The numbers of the finished selections disappear from the music calendar.

To stop the program play
Press the ❚❚ or ■ (stop) button.

To reprogram the selections from the beginning
1 Before play starts, press the ❚❚ or ■ (stop) button once.
During play, press the ❚❚ or ■ (stop) button twice.
2 Repeat the steps from the beginning.

To reprogram the selections while programming (only before play starts)
Press the EDIT/CLEAR button twice, and the selection programmed last disappears from the music calendar. With each press, the programmed selections disappear one by one.
When all the selections disappear from the music calendar, reprogram selections.

To release program play and to return to normal play
Press the MODE button until no indication appears.

When the programmed selections have finished

The selection numbers in the music calendar disappear one by one, but when the last selection has finished, the programmed selections are displayed again.
By pressing the ▷ button, you can repeat the same program play as many times as you wish.

To program a pause

Unit

1 Press the ◁◁ or the ▷▷ button until the "P" indication appears in the display window.
2 Press the ENTER/MEMORY button.
A pause counts as one selection.

A pause has been programmed as the 4th selection.

Remote commander

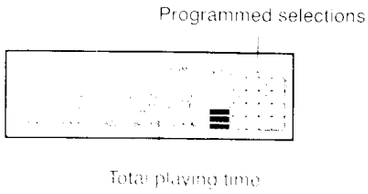
Press the ❚❚ button where you want to program a pause. The player pauses when it comes to the position where a pause is programmed. To resume playing, press the ▷ button on the unit or the ❚❚ button on the remote commander.

To check programmed selections (only before program play)

During programming, press the ENTER/MEMORY button on the unit or the PGM CHECK (▶▶) button on the remote commander. With each press, the selections appear in the programmed order.

To check the total playing time of the programmed selections (only before program play)

Press the DISPLAY button on the remote commander.
The total playing time appears instead of the playing order.



When you program a pause in the programmed selections, the playing time after the pause appears. To return to the normal display, press the DISPLAY button.

To erase the programmed selections

The programmed selections are erased in the following cases.

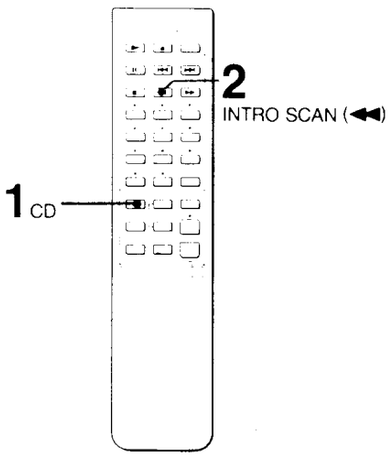
- When you press the ■ (stop) button twice during the program play.
- When you press the ■ (stop) button in the stop mode.
- When you open the disc tray.

To repeat the desired selections in the desired order — Program Repeat

1 Press the CD button to display the "Cd" indication.
2 Press the MODE button until the REP PGM indication appears.
3 Program the desired selections. (see page 28).
4 Press the ▷ button.
The same program is played repeatedly.

To Scan the Beginning of the Selections

You can scan the first 10 seconds of all selections during normal play, shuffle play, and program play.



1 **Press CD to display the "Cd" indication.**

2 **Press INTRO SCAN while the CD player is in stop mode.**
Intro scan play starts immediately.

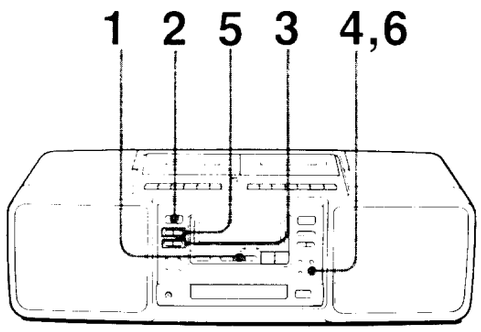
To release the intro scan play
Press any button for disc play.

Note

Even if a pause is programmed in program play, the intro scan play skips the pause.

Presetting Radio Stations

Once you preset the stations, you can listen to the desired station just by pressing the PRESET button on the unit or the number buttons on the remote commander.
You can preset up to 24 stations, 12 for each AM and FM band.



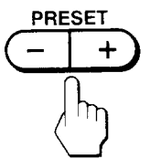
1 Press RADIO to display the "RAdIO" indication.

2 Select the desired band, FM or AM by pressing BAND.

To tune in the preset station

Unit

Select the band, then select the desired number by pressing "–" or "+" of the PRESET button.



Remote commander

Select the band, then press the number button of the desired preset number.

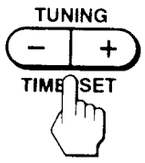
When you want to tune in the station:

With the preset number...	Press...
1 to 9	1 to 9
10	+10 → 0
11	+10 → 1
12	+10 → 2

Notes on storing stations

- When you enter a new station on a preset number, the previous station will be erased automatically.
  The only way to erase a station from the memory is to store a new one in its place.
- The preset stations are erased when you remove the AC power cord or the batteries for the unit.
  We recommend to insert four size AA (R6) batteries (not supplied) for clock/timer/memory before you use the unit.

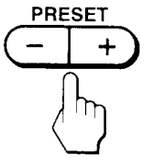
3 Tune in the desired station.



4 Press ENTER/ MEMORY for about 2 seconds.

A preset number flashes in the music calendar.

5 Select the desired preset number by pressing PRESET.



6 Press ENTER/ MEMORY.

FM 87.6 has been stored on preset number 3.

Automatic Editing of the CD for Recording

The unit automatically edits the selections on a disc according to the tape length.
The recording length is up to 99 minutes and up to 16 selections can be edited.

There are three ways of editing.
Each time you press the EDIT/PGM CLEAR button, the editing mode changes in sequence as indicated in the display window: EDIT 1 → EDIT 2 → EDIT 3 → normal recording.

Example: To record the disc below on a 46-minute tape (23 minutes for each side)

Selection no.:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]
Length (min.):	20				5	2	4	8	2

EDIT 1:
The unit edits selections without changing the original order. When the total playing time for one side exceeds the specified tape length, the remaining selections are recorded on the reverse side of the tape.

- In the example above, the playing time of the first 4 selections adds up to 20 minutes leaving only 3 minutes. As the 5th selection is 5 minutes long, the 5th and the succeeding selections are recorded on the reverse side of the tape.

  Upper side: the total playing time is 20 minutes.
  Reverse side: the total playing time is 21 minutes.

EDIT 2:
The unit edits selections to best fit the tape length. As a result, the selection order may be changed.

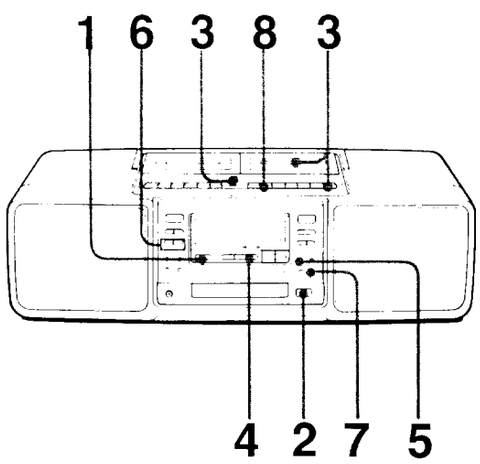
- In the example above, the unit adds up the first 4 selections. Then, with 3 minutes left, it looks for a selection that fits into the remaining time and so selects the 6th.

  Upper side: the total playing time is 22 minutes.
  Reverse side: the total playing time is 19 minutes.

EDIT 3:
The unit records all the selections to the tape. When one side of the tape ends with the last selection unfinished, the unit records from the beginning of the unfinished selection on the reverse side.

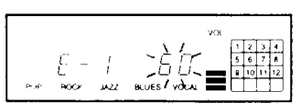
Notes

- Use a tape which is longer than the total playing time of the disc.
- When you press the EDIT/PGM CLEAR button, the selection order stored for program play (see page 28) is erased.
- To record the selections which cannot be recorded on the specified tape after the selection has been programmed for automatic editing, press the MODE button twice to display the PGM indication first and then record.
- When you open the disc tray, the selection order programmed for automatic editing is erased.



5 **Select EDIT 1, EDIT 2 or EDIT 3 by pressing EDIT/PGM CLEAR.**

EDIT 1:



by Specifying the Tape Length

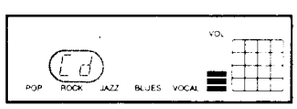
1 Press POWER.

2 Insert the disc in the unit (see page 13).

3 Insert a blank cassette into deck B. Select "⇄" with DIR MODE (CFD-260 only).

Use a TYPE I (normal) tape only.

4 Press CD to display the "Cd" indication.



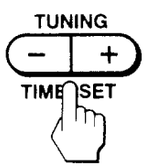
- Make sure the disc is not moving. During play, the edit function does not work.
- When the SHUF or the PGM indication is displayed in the display window, press the □ (stop) button once until the indication disappears.

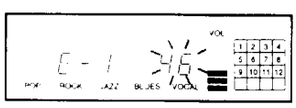
EDIT 2:

EDIT 3:

Proceed to step 8.

6 Enter the total tape length by pressing TUNING/TIME SET (−/+).

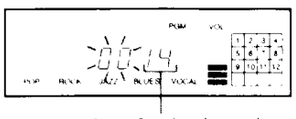




(continued on next page.)

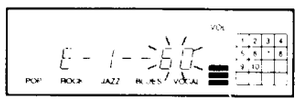
7 Press ENTER/MEMORY.

When the total playing time is shorter than the tape length:



This indicates that 12 selections plus a pause have been programmed. (Additional selections can be programmed from the 14th step.) The PGM indication is displayed to indicate that programming has been completed.

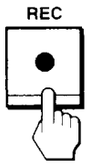
When the total playing time is longer than the specified tape length:



The tape length flashes and " - - " is displayed. Replace the tape with a longer one, and repeat from step 6.

8 Press ● REC.

►PLAY is depressed automatically.
The **REC** and **DUB** indications appear in the display window and recording starts.



To check the programmed selections (EDIT 1 and EDIT 2 only)

Press the PGM CHECK (►►) button on the remote commander while the disc is not moving. You can check the selections from the beginning one by one. After pressing the DISPLAY button, press the PGM CHECK (►►) button on the remote commander, and the time added up on each side will be displayed.

When recording on the upper side is finished

On the CFD-250

The CD player is set to the pause mode and the tape runs to the end of the upper side (any previous recordings will be erased). Operate as follows:

1 Take out the cassette and reverse the recording side.
2 Reinsert the cassette and press the ● button on the cassette deck.

The CD player starts to play and the cassette deck starts to record on the reverse side.

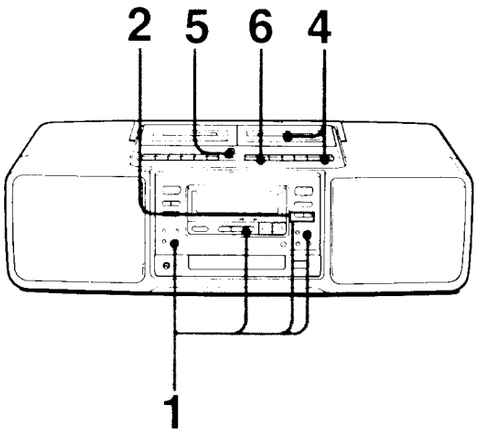
On the CFD-260

The CD player is set to the pause mode. The cassette deck starts to erase the remaining tape on the upper side, and then, the tape changes to the reverse side.
The CD player automatically starts to play and the cassette deck starts to record on the reverse side.

When all the selections have been recorded

Both the CD player and the cassette deck stop.

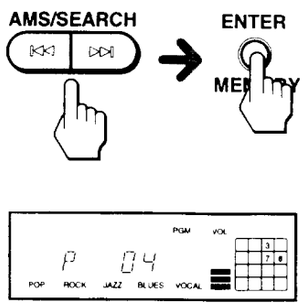
Recording Programmed Selections (Manual Program Edit)



1 **Program selections to record on the upper side (see page 28).**

If you want to record on both sides, go on to step 2.
If you want to record on just the upper side, go on to step 5.

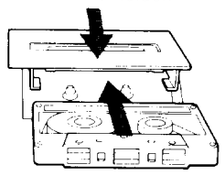
2 **Program a pause by pressing AMS/SEARCH and ENTER/MEMORY.**



3 **Program selections to record on the reverse side.**

4 **Insert a cassette into deck B.**

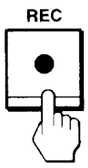
Close the holder.



Use a TYPE I (normal) tape.

5 **CFD-260 only**
To record on one side, set to ⇄.
To record on both sides, set to ⇄.

6 **Press ● REC.**
The REC an DUB indications appear in the display window and recording starts.



When recording on the upper side finished

On the CFD-250

After the cassette deck stops, reverse the tape and press the ● button on the cassette deck.

On the CFD-260

The tape reverses automatically and recording starts on the reverse side.

To program selections with the total playing time displayed

Press the DISPLAY button to display "––:––" indication during programming selections. The total playing time of programmed selections is displayed.

Note

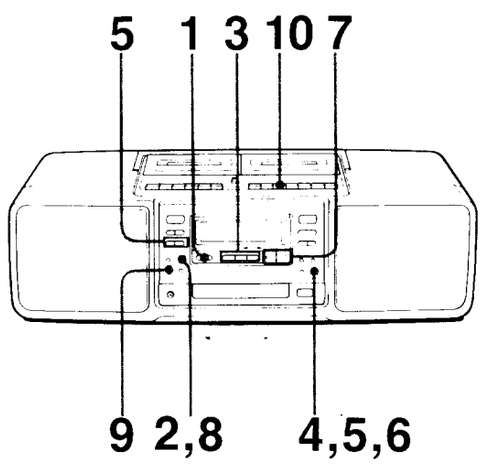
When you record CD or tape sound, operating the unit on house current with the supplied power cord is recommended.

Using the Built-in Timer

Four size AA (R6) batteries (not supplied) should be inserted.

To Listen to the Desired Sound at the Desired Time

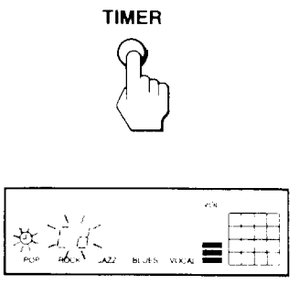
You can wake up to the desired sound at the desired time when you set the timer-on time. Make sure the current time is correct. If it is not, correct it referring to page 11. Make sure the ◴ indication is not displayed in the display window.



1 Press POWER.

2 Press TIMER, and the ◴ and function indications flash.

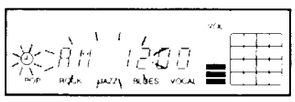
TIMER



4 Press ENTER/MEMOMY.

ENTER

MEMORY

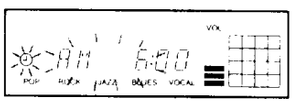


5 Set the timer-on time by pressing TUNING/TIME SET and ENTER/MEMORY.

Example: to set to 6:15 a.m.

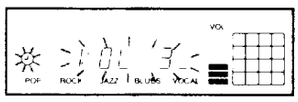
TUNING

TIME SET



7 Set the desired volume by pressing VOLUME.

VOLUME



You can choose the volume from 10 gradations.

8 Press TIMER.

What you programmed has been stored.

TIMER

At the preset time...

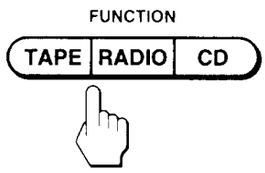
At the timer-on time, the power is turned on and the sound comes on automatically.

120 minutes after the timer-on time, the power will be turned off automatically.

To confirm the timer-on time, the function and the volume

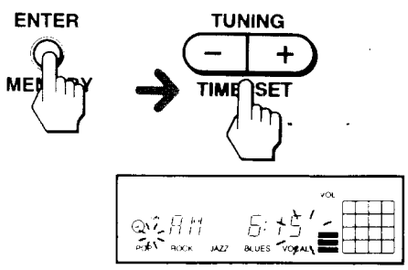
Press the TIMER button, then the ENTER/MEMORY button. Each time you press the ENTER/MEMORY button, what you stored appears. After you have confirmed, press the TIMER button again.

3 Select and prepare the desired sound source.

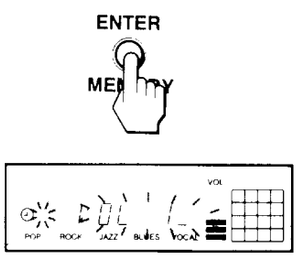


	Indication	Preparation
To listen to a disc*	"Cd"	Place a disc on the disc tray.
To listen to the radio	"RAdIO"	Tune in the desired station.
To listen to a tape (CFD-260 only)	"TAPE"	Insert a tape into deck B.

*You can listen to a disc in a playing mode other than the normal playing mode.

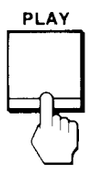


6 Press ENTER/MEMORY.



9 Press STANDBY.
The ◴ indication is displayed and the power is turned off automatically.

10 Press PLAY on deck B when you listen to a tape.



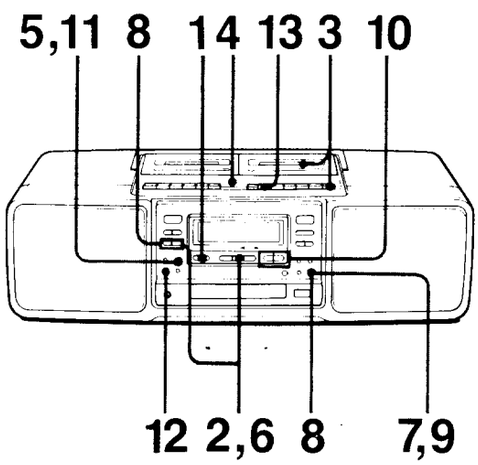
To stop the play in the middle
TAPE: press the ■⏏ button, then the POWER button.
RADIO: press the POWER button.
CD: press the ⏸ (stop) button, then the POWER button.

To release the timer-on time
Press the STANDBY button to make the ◴ indication disappear from the display window.

To listen to the desired sound at the same time on the next day
You need not set the timer and the function again, because the preset time and the function are stored until you reset them. When the ◴ indication is not displayed in the display window, press the STANDBY button again.

To Record Radio Programs at the Desired Time (CFD-260 deck B only)

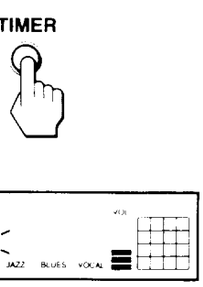
Make sure the current time of the unit is correct. If it is not, correct it referring to page 11.
Make sure the ⏲ indicaton is not displayed in the display window.



1 Press POWER.

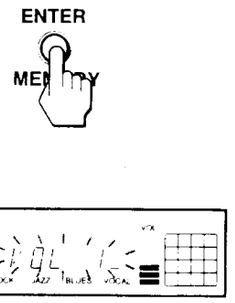
2 Select RADIO and tune in the desired station.

5 Press TIMER, and the ⏲ and function indications flash.

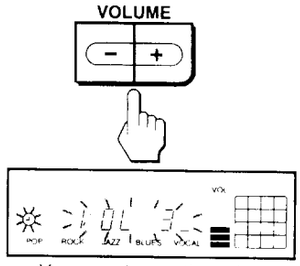


6 Press RADIO.

9 Press ENTER/MEMORY.



10 Set the desired volume by pressing VOLUME.

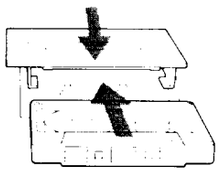


At the preset time
At the timer-on time, the power is turned on and the sound comes on automatically.
120 minutes after the timer-on time, the power is turned off automatically.

To confirm the timer-on time, the function and the volume
Press the TIMER button, then the ENTER/MEMORY button. Each time you press the ENTER/MEMORY button, what you stored appears. After you have confirmed, press the TIMER button again. Then the display which had been displayed before you pressed the button reappears.

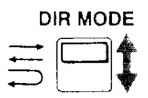
3 **Insert a blank cassette into deck B.**

Close the holder.



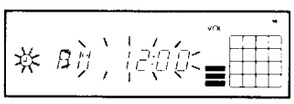
Use a TYPE I (normal) tape only.

4 **Select the desired tape direction mode with DIR MODE.**



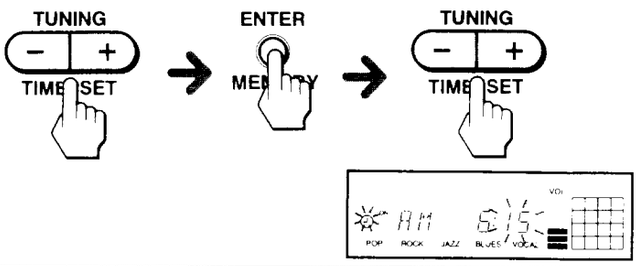
	Indication
To record on one side of a casstte	⇄
To record on both sides of a cassette	↩

7 **Press ENTER/MEMORY.**



8 **Set the timer-on time by pressing TUNING/TIME SET and ENTER/MEMORY.**

Example: to set to 6:15 a.m.

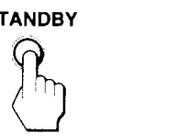


11 **Press TIMER.**

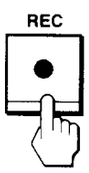
What you programmed has been stored.

12 **Press STANDBY.**

The ⏲ indication is displayed and the power is turned off automatically.



13 **Press ● REC.**



To stop recording in the middle

Press the ■⏏ button, then the POWER button.

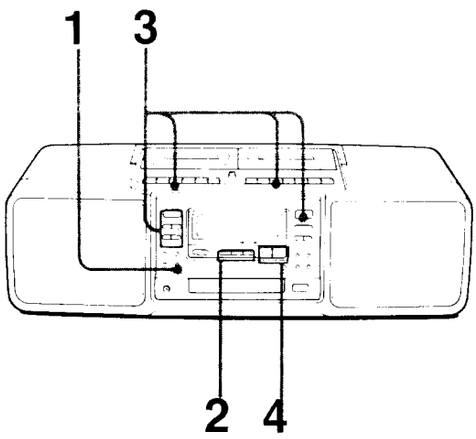
To release the timer-on time

Press the STANDBY button to make the ⏲ indication disappear from the display window.

Note

For recording, using the unit on house current with the supplied AC power cord is recommended.

To Fall Asleep with the Desired Sound — Sleep Function



1 **Press SLEEP.**
The SLEEP indication and the indication before you turned off the unit appear in the display window.

If the power is off, it will be turned on automatically.

To stop the sleep function in the middle of the setting
Press the SLEEP button again or the POWER button.

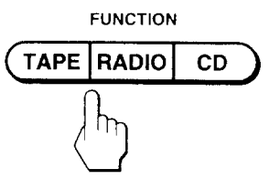
To reset the sleep time
Turn off the power, and repeat from step 1.

To fall asleep with the desired program and to be awakened with another program

1 Preset the desired program to wake up to.
Follow the procedures on page 38, 39.
2 Activate the sleep function.
Follow the procedures above.

As you can set different volume when you set the sleep function and the timer-on time, you can fall asleep at low volume and be awakened at high volume.

2 **Select the desired sound source by pressing the function button.**



3 **Play the desired sound source**

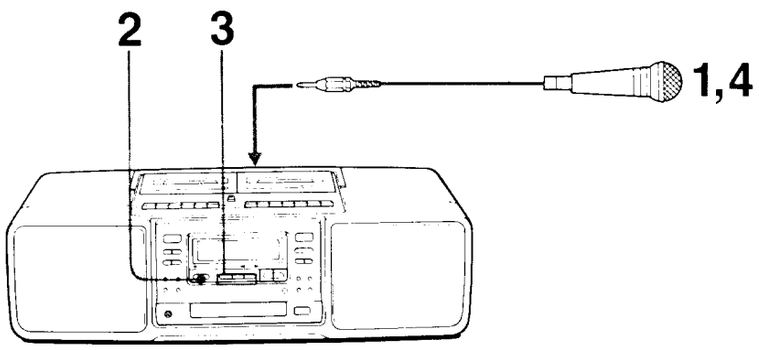
TAPE: Press the ▶ button.
RADIO: (1) Select the desired band
(2) Tune in the desired station.
CD: Press the ▷|| button.

The sleep function starts.

4 **Adjust the volume.**
120 minutes after you press the SLEEP button, the power is turned off automatically. You can fall asleep listening to the desired program.

Microphone Mixing

You can sing with "Karaoke" or add narration.



1 **Connect a microphone to the MIX MIC jack.**
Use a monaural microphone with mini-plug (not supplied).
If the microphone has a power switch, set it to ON.

To record mixed sounds
Insert a cassette into deck B and set it in the recording mode.

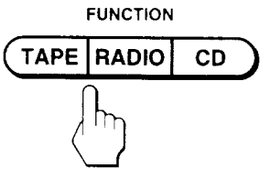
To record mixed sound with tape
1 Insert a recorded cassette into deck A and a blank cassette into deck B.
2 Press the TAPE button to display the "TAPE" indication.
3 Press the ● button on deck B.

Public address system
1 Connect a microphone to the MIX MIC jack.
When the microphone has a power switch, set it to ON.
2 Press the POWER button.
3 Press the TAPE button to display the "TAPE" indication.
4 Adjust the volume.
When the unit is set in the recording mode, only the sound from the microphone is recorded.

Notes
- When howling (acoustic feedback) occurs, move the microphone away from the speakers.
- Microphone sounds cannot be mixed in the high-speed dubbing mode.
- It is not recommended to use a microphone equipped with an echo function.

2 Press POWER.

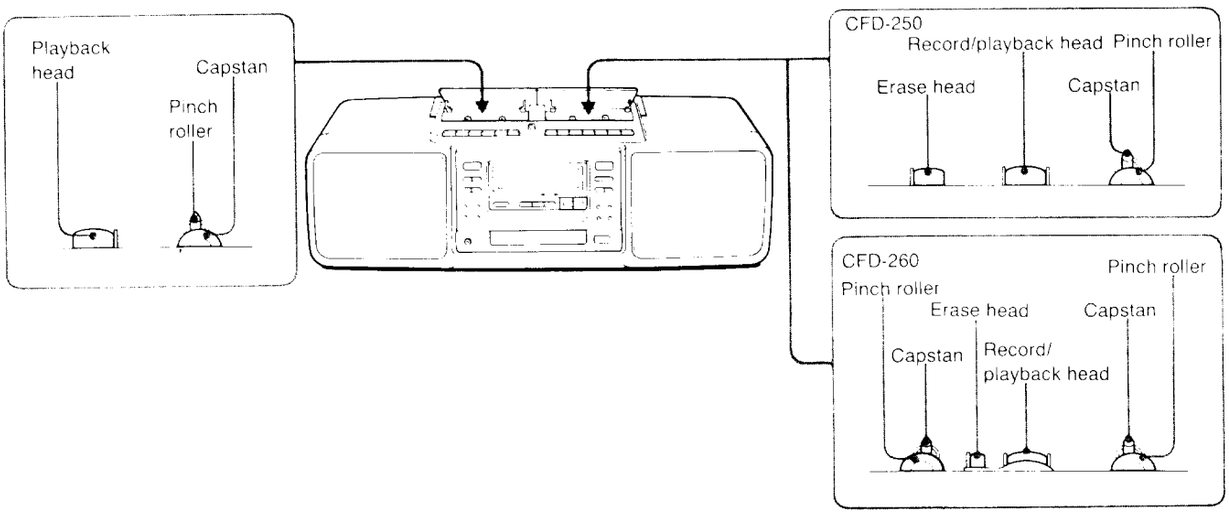
3 Select and play the desired sound source.



	Displayed indication
To mix with tape sound	"TAPE"
To mix with the radio	"RAdIO"
To mix with disc sound	"Cd"

4 Sing or speak into the microphone.

Maintenance



Cleaning the heads and tape path

Contaminated heads cause insufficient recording or sound drop-out in playback.
We recommend cleaning after every 10 hours of operation. To make the best possible recording, however, you should clean all surface over which tape travels before making each recording.

Wipe the heads, the pinch rollers and the capstans with a cleaning tip slightly moistened with cleaning fluid or alcohol.

After cleaning the heads, rollers and the tape path, insert a cassette when the areas cleaned are completely dry.

Demagnetizing head

After 20 to 30 hours of use, enough residual magnetism will have built up on the heads to begin to cause loss of high frequencies and hiss. At this time, you should demagnetize the heads and all metal parts in the tape path with a commercially available head demagnetizer.

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or benzine.

Notes on Compact Discs

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in the temperature inside the car.
- After playing, store the disc in its case.

If there is a scratch, dirt or fingerprints on a disc, it may cause tracking error.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3-ohm loads, both channels driven from 150-10,000 Hz: rated 3.5 W per channel-minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

Other Specifications

CD Player section

System	Compact disc digital audio system
Laser diode properties	Material: GaAlAs Wave length 780 nm Emission duration: Continuous Laser output: Less than 44.6μW* *This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block.
Spindle speed	200 r/min (rpm) to 500 r/min (rpm) (CLV)
Error correction	Sony Refind Super Strategy Cross Interleave Read Solomon Code
Number of channels	2
Frequency response	20 ± 20,000kHz (– 10dB)
Wow and flutter	Below measurable limit

Radio section

Frequency range	FM: 87.5 – 108 MHz AM: 530 – 1,710 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar antenna

Tape recorder section and general

Recording system	4-track 2-channel stereo
Fast winding time	Approx. 120 s with Sony cassette HF60
Speaker	Full range: 8cm dia., cone type
Frequency response	TYPE I (normal) cassette: 50 – 12,000 Hz (EIAJ)
Inputs	Mixing microphone input jack (minijack) Sensitivity 2.45 mV For low impedance microphone
Outputs	Headphones jack (stereo minijack) For 8 – 32 ohms impedance headphones
Power output (excluding USA model)	4.5W + 4.5W (at 3 ohms, 10% harmonic distortion)
Power requirements	For CD radio cassette-corder Australian model: 240V AC, 50Hz Model for other countries: 120V AC, 60Hz DC 12V, 8 size D (R20) batteries For clock/timer/memory DC 6V, 4 size AA (R6) batteries For remote commander DC 3V, 2 size AA (R6) batteries
Power consumption	Canadian model 27 W Other models 25 W

Battery life

Batteries for CD radio cassette corder

	FM Recording	Tape Playback	CD playing
Sony SUM-1 (NS)	approx. 4h	approx. 2h	approx. 1h
Sony Alkaline AM1	approx. 12h	approx. 5.5h	approx. 3h

For clock/timer/memory: approx. 1 year

Dimensions	572 × 185 × 230 mm (w/h/d) ($22^5/_8 \times 7^2/_8 \times 9^1/_8$ inches) incl. projecting parts and controls
Weight	CFD-250 6.4kg (14 lb. 2 oz.) CFD-260 6.9kg (15 lb. 3 oz.) (incl. batteries; excl. supplied accessories)
Supplied acceessories	AC power cord (1) Remote commander (1)

Design and specifications subject to change without notice.

Optional Accessories

Dynamic microphone
Sony DYNAMIC MICROPHONE series
Stereo headphones
Sony MDR headphone series
Digital drum pat DRP-3
CD cleaner XP-CD7

Troubleshooting Guide

Symptom	Remedy
General	
• No sound.	• Press the POWER button to turn on the power. • Connect the AC power cord to the AC IN jack and to a wall outlet firmly. • Insert batteries with correct polarity. (See page 10.) • Replace the batteries with new ones if the batteries are weak. (See page 10.) • Light up the desired indicator by pressing the desired FUNCTION selecting button. • Adjust the volume. • When you listen to the sounds from speakers, unplug the headphones from the PHONES jack.
• Much noise. • Sound is too low and not good.	• Replace all the batteries with new ones if they are weak. (See page 10.)
• Abnormal sound is heard.	• Replace all the batteries with new ones.
CD player section	
• Play does not start. • The no disc indication is displayed even though a disc is placed.	• Make sure the disc tray is closed. • Place the disc with the labeled surface up. • Clean the disc. (See page 46.) • Take out the disc and leave the disc tray open for about one hour, if moisture has condensed on the lens. • Light up the CD indicator by pressing the CD button.
• Sound dropouts.	• Turn down the volume. • Clean the disc. (See page 46.) • Change the disc if it is badly damaged. • Place the unit in a location free from vibration.
Cassette deck section	
• A tape does not move even though the operation button is pressed.	• Close the cassette holder.
• The REC button does not function. • The tape cannot be played back.	• Cover the broken tab slot of the tape in the deck B. (See page 20.) • Light up the TAPE indicator by pressing the TAPE button.
• Unsatisfactory erasing.	• Clean the erase head. (See page 46.) • Replace all the batteries with new ones if they are weak. (See page 10.)
• Dubbing cannot be done.	• Insert a cassette properly. (See page 24.) • Cover the broken tab slot of the tape in deck B. (See page 20.)
• Noise is heard. • Sound is not good.	• Clean the head, pinch roller and capstan. (See page 46.) • Demagnetize the head, using the demagnetizer. (See page 46.)
Clock section	
• Timer does not operate.	• Set the current time correctly. (See page 11.) • Replace all the batteries with new ones if they are weak. (See page 10.) • Check if the cassette in deck B has been rewound to the end. • Check if the power has been cut off. (In case you were using the AC power cord.) • Make sure the ⏲ indication is displayed.
Remote commander section	
• The unit cannot be remotely controlled.	• Replace all the batteries in the remote commander with new ones if they are weak. (See page 10.) • Be sure to point the remote commander at the sensor of the unit. • Remove any obstacles between the unit and the remote commander. • Place the unit where the infrared ray sensor will not be exposed to a strong light, such as direct sunlight or a fluorescent lamp.

If the unit still does not function even after carrying out above remedies, unplug the AC power cord and remove the batteries for the clock/timer/memory. After all the indications in the display window disappear, insert the batteries for the clock/timer/memory again. The unit should then function properly.

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